

CHAPTER 6

POWER RELIABILITY ENHANCEMENT PROGRAM (PREP) ITEM IDENTIFICATION CROSS REFERENCE GUIDE

6-1. Purpose

The PREP Item Cross Reference Guide in appendix C is supplied to help cross reference the new *item* numbers currently being used to the previous component identification of *kind* numbers.

a. This alteration was needed because the prior component identification numbering system made it difficult to categorize similar components under a like classification in a hierarchical structure. The design of the prior component identification numbering system made it impossible to add a new component, which was similar to other components other than in size or capacity, to a like group of numbers.

b. The previous component identification system also made it difficult to roll up like classes into a more generic classification of a component. This can be explained better by providing an example of cables in different classifications based on size and application. Three different types of cable:

(1) AC cable, above ground, 0-600volts, in conduit, item #E6-111

(2) AC cable, above ground, 0-600volts, in trays, item #E6-112

(3) AC cable, above ground, 0-600volts, no conduit, item #E6-113

c. All three of these classes can have their own failure rates, availability numbers ...etc. But if the analyst did not have either of these specific classifications known to him, a generic failure rate could be obtained by "rolling up" one level to AC cable, above ground, 0-600 volts, item #E6-110 using the next level of "Item #'s" for AC cable. This "rolling up" process can keep going up one more level getting more and more generic all the way up to AC Cable, item #E6-000.

6-2. Classifications

All new assigned PREP identifications have a letter classifications provided that breaks out the *Power Generation, Distribution and Electrical component* by adding the prefix "E" to the item number. It also separates the *HVAC components* with the prefix "H" and the *Controls and Monitoring components* with the prefix "C". This can make sorting through the entire list of components a lot less cumbersome.

a. Although the prefixes provide a big advantage to cataloging the components, there were some components that could possibly fall within two different categories (i.e., Power Generation and HVAC). Some of these components are listed below at the "highest level" along with their Item Number.

1. Cabinet Heater	#E4-000
2. Engine	#E15-000
3. Heater	#E24-000
4. Oil Cooler	#E30-000
5. Tank	#E37-000

b. These items could have been categorized in HVAC as well, but do to their association with power generation components (i.e., Engine, Diesel) it was decided to categorize them with the prefix "E". Therefore, it may be necessary to look in both categories.